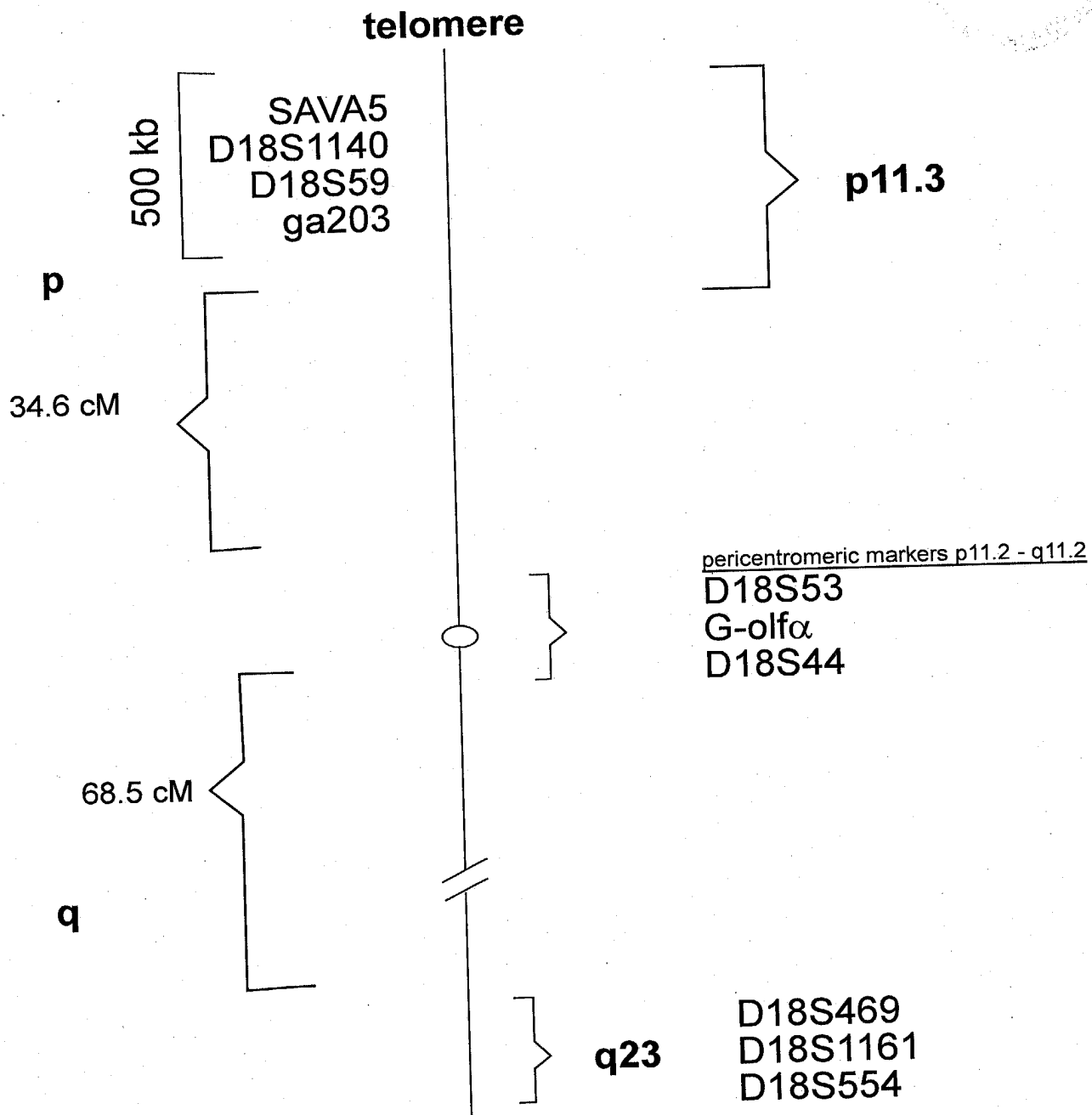


**EXHIBIT 1**  
08/976,560



Lod scores for markers exceeding the arbitrary coverage thresholds.

		Family CR001		Family CR004		Combined	
Marker Name	distance from pter	$Z_{max}$ $\geq 0.8$	Theta	$Z_{max}$ $\geq 1.2$	Theta	$Z_{max}$ $\geq 1.6$	Theta
D1S456	224.6	1.32	0.0	0.0	0.50	0.0	0.50
D2S130	230.1	0.89	0.0	0.12	0.35	0.36	0.26
D3S1285	91.0	0.00	0.50	2.59	0.00	1.15	0.16
D4S171	207.9	1.07	0.07	0.01	0.05	0.22	0.29
D5S427	69.6	1.39	0.0	0.0	0.50	0.7	0.18
D7S510	60.5	0.04	0.40	2.04	0.0	0.82	0.17
D11S929	36.3	0.80	0.11	0.03	0.42	0.43	0.24
D11S1392	38.6	0.86	0.07	0.90	0.23	1.58	0.19
D11S1312	42.0	0.47	0.13	1.77	0.0	1.95	0.05
D13S175	7.4	0.83	0.0	0.0	0.50	0.24	0.15
D15S126	45.5	1.09	0.0	0.0	0.48	0.06	0.40
D16S521	4.6	1.46	0.0	0.41	0.26	1.18	0.17
D16S515	94.8	0.93	0.09	0.01	0.46	0.39	0.25
D16S486	133.6	0.27	0.19	1.29	0.20	1.60	0.20
D17S849	0.60	0.0	0.50	1.22	0.07	0.32	0.14
D18S59	1.1	1.43	0.0	0.0	0.50	0.02	0.46
D18S1105	2.8	0.97	0.0	0.01	0.47	0.01	0.46
D18S71	43.8	0.96	0.0	0.0	0.50	0.0	0.50
D18S64	84.0	0.33	0.11	1.34	0.15	1.67	0.13
D18S55	95.5	0.0	0.50	2.09	0.13	1.51	0.18
D18S61	103.8	0.0	0.50	2.26	0.12	1.94	0.16
D18S488	105.6	0.0	0.50	1.26	0.14	1.02	0.19
D18S1161	113.0	0.0	0.50	1.79	0.16	1.76	0.17

Markers for which lod scores exceeded the arbitrary thresholds used for genome coverage calculations (in bold).  $Z_{max}$  is the maximum likelihood estimate of the lod score at the corresponding value of the recombination fraction (theta).

Figure 2